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The Institute for Next Generation IT Systems

Presentation to the State Portal Advisory Committee
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ITng Background

- Aggregation of various institutes, centers, and labs that were IT-focused, including NTI, CACC, COSE, SOSI, CNL, Centaur, …
- Leverage core strengths of NCSU's CSC and ECE departments:
  - Computer architecture, distributed systems
  - Networking
  - Cloud computing, virtualization
  - Software engineering
  - Visualization, analytics
  - Security
- Formulated in 2008-2009; chartered by the university in 2009
  - Office of the Dean of the College of Engineering
  - Office of the Vice Chancellor for Research
- Launched in April 2010

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ITng Goals

- Provide a focal point for IT-related research within NC State University
- Provide a focal point within NC State University for IT engagements throughout the state
- Reduce the complexity of NC State's research institutes and centers to the outside world
- Align itself with NC State University's major strategic research initiatives

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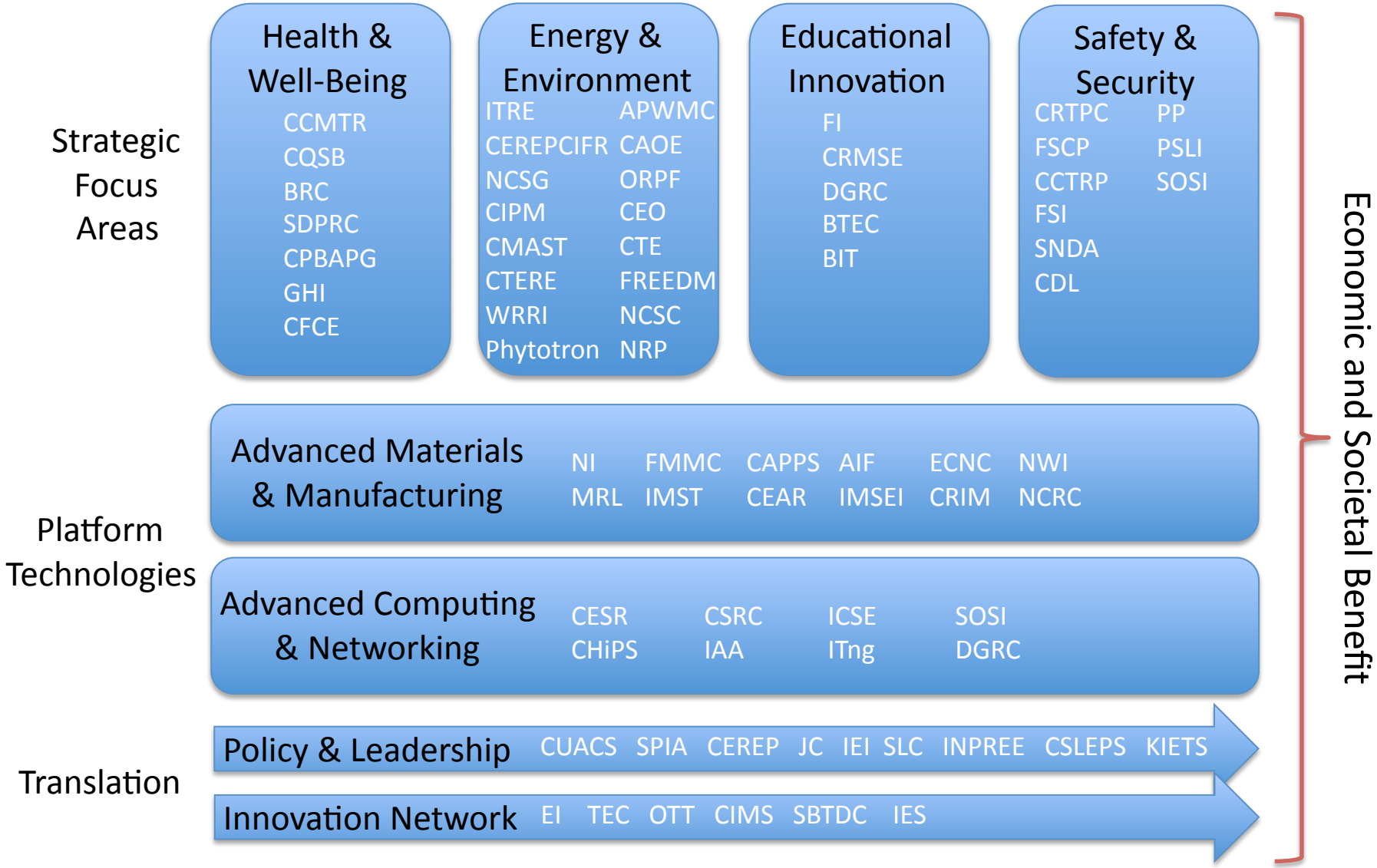
NCSU Strategic Research Initiatives



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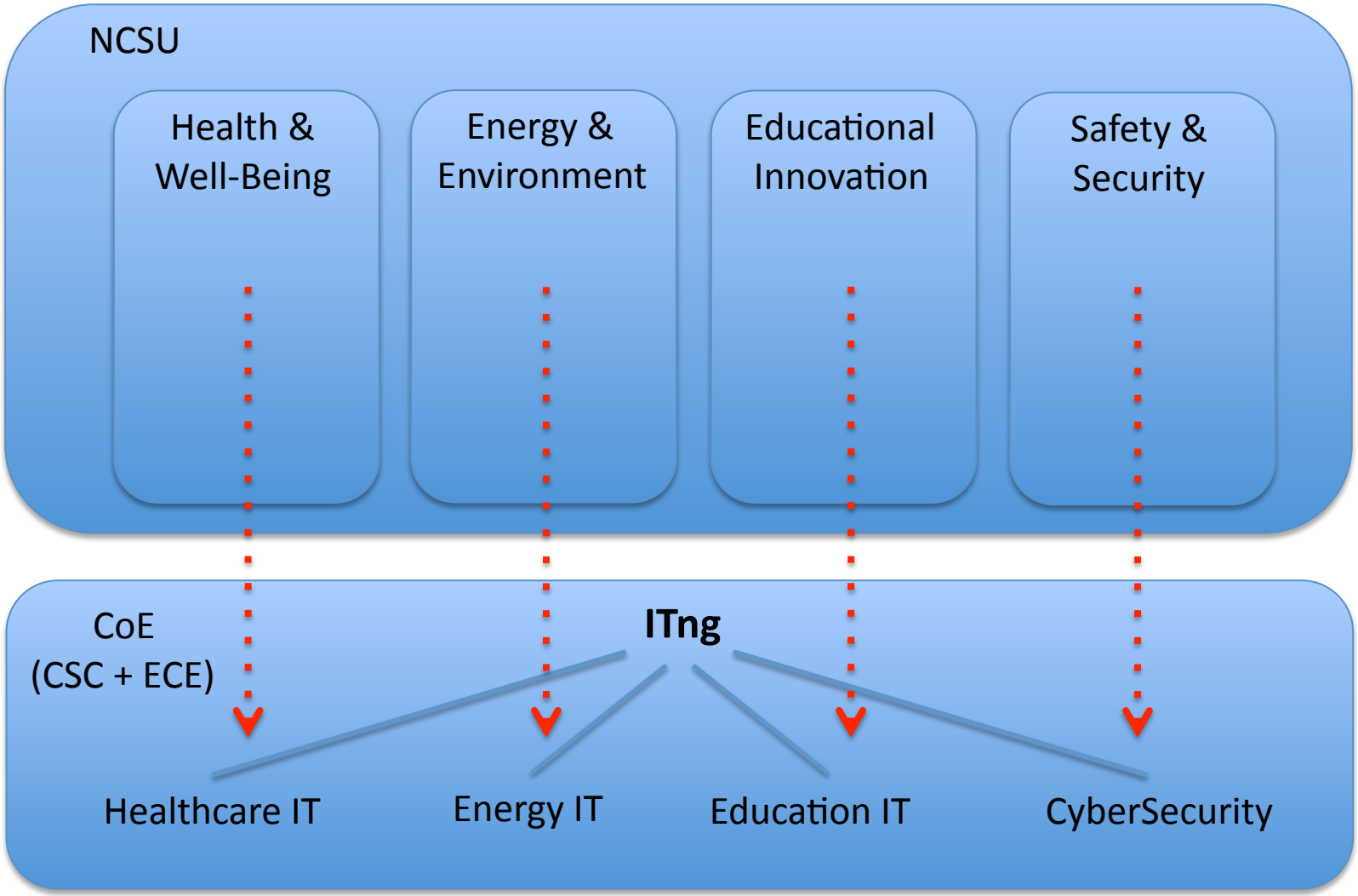
Overall ITng Structure



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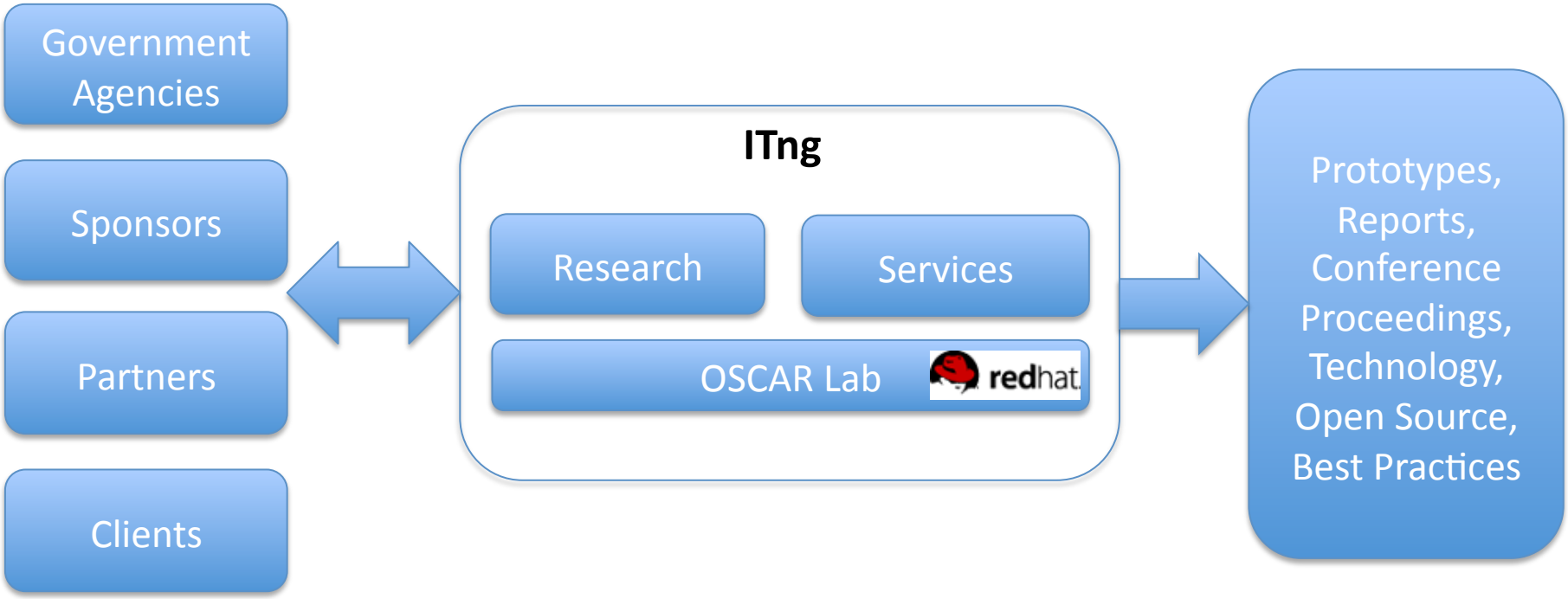
IT Research within NCSU College of Engineering



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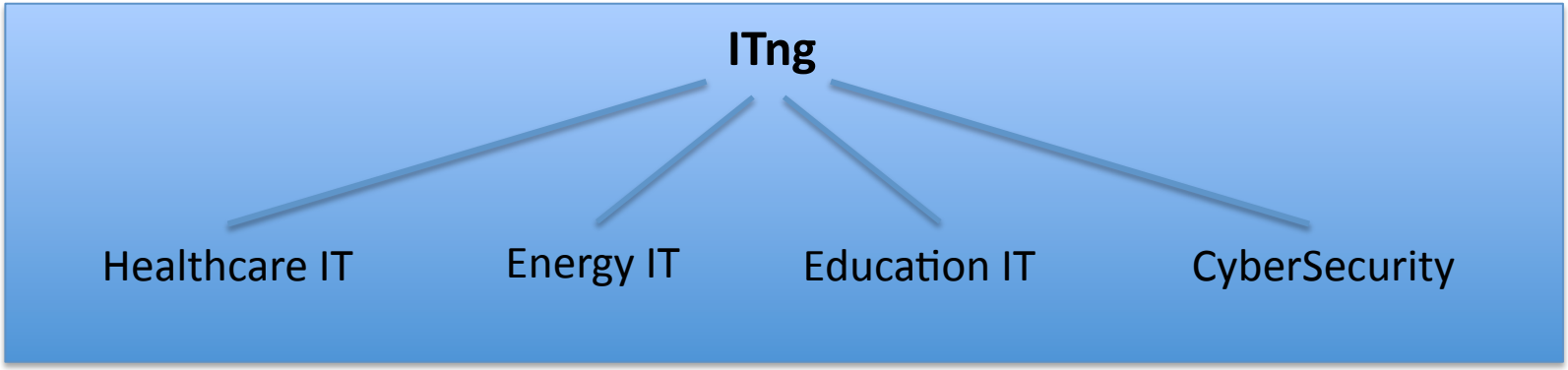
ITng Structure Details



Research Programs, Labs, and Services

SOSI
COSE
(CACC)*
OSCAR Lab
ITng Services

Sponsors

IBM, Cisco, NSA, Tekelec, Red Hat, NetApp, MC Dean, SURFnet, ARO, Ixia, NCCAR, others

Partners (current + potential)

FREEDM Center, RENCI CESR, MCNC, Friday Institute, IAA, NC-DPI, NCHICA, UNC-SILS, UNC-Medical, others as needed

* CACC ending in 2010

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End of Presentation

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